

# WISDOM Thermal Spray Consumables

## Nickel base alloy



### Babbitt Wire

### DATA SHEET

November 2015

### Introduction

Babbitt alloys remain consistent from edge-to-edge and end-to-end through thousands of pounds of ingots and bars, and through thousands of miles of spray wire. Babbitt formulations meet or exceed their engineering standards. With higher productivity, less rework, less cleanup. Fewer defects and higher quality finished products. The coatings are ductile, low in oxides and exhibit a bright, metallic appearance.

It can Equivalent to: Tafa 04T, Sulzer Metco Spraybabbitt.

### Surface Preparation

Surface should be clean, white metal, with no oxides (rust), dirt, grease, or oil on the surface to be coated. Note: It is best not to handle surfaces after cleaning. Recommended method of preparation is, to grit blast with 24 mesh aluminum oxide, rough grind, or rough machine in a lathe.

### Application

- Bearing Surfaces

### Chemical composition

Type(%)	Chemical composition			
	Sn	Sb	Cu	other
Babbitt wire	90	7~8	3~4	0.25

### Specifications

Grade	AWS
Babbitt wire	C2.25 / C2.25M W-SnSbCu-1

### Physical Properties

Grade	Density	Melting point
Babbitt wire	6.67 g/cm <sup>3</sup>	354 °C

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### **Typical Deposit Characteristics**

Typical Hardness	Bond Strength	Deposit Rate	Deposit Efficiency	Machine Ability
Nil	3000 psi	48 lbs /hr/100A	70%	Good

### **Standard Sizes & Packing**

Diameter	Dimension Tolerance	Packing	Wire Weight
1/16"(1.6mm)	+0/-0.05	D 300 Spool	15kgs(33 lbs)/spool
2.0mm	+0/-0.05	D 300 Spool	15kgs(33 lbs)/spool
1/8"(3.17mm)	+0/-0.05	Coil Form	20-250kgs/coil

Other sizes can be produced by customers' requirement.